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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



Top Secret

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imagery analysis report

Troposcatter Links in Egypt (S)

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TROPOSCATTER LINKS IN EGYPT (S)

- 1. (TSR) Five troposcatter links have been identified in Egypt on overhead imagery obtained through Three of these links—Siwa Oasis to Matruh, As Suways to Al Ghurdaqah, and El Maraziq to Ras Shukhayr—appear to be operational. A fourth link—Al Arish to Al Ismailiyah—is no longer operational following removal of the antennas at the Al Ismailiyah station. The operational status of the fifth link with one terminal at Arish and the attempt identified to does be operational status. of the fifth link-with one terminal at Aswan and the other not identified to date-has not been deter-
- 2. (TSR) The Siwa Oasis, Matruh, As Suways, and Al Ghurdaqah stations consist of a mobile system, designed for military use, which provides multichannel tactical communications. The El Maraziq Troposcatter Station and the Ras Shukhayr Troposcatter Station are adjacent to petroleum-related facilities—El Maraziq Gas Processing Plant and Ras Shukhayr Crude Petroleum Terminal Storage
- 3. (TSR) Following the return of Al Arish to Egyptian control last summer under the terms of the 3. (15R) Following the return of Al Arish to Egyptian control last summer under the terms of the new Egyptian-Israeli peace treaty, a troposcatter link between Al Arish and Al Ismailiyah in the northern Sinai was established. However, this link was probably meant to provide only a temporary communications capability until a more permanent system could be built, because more recent overhead imagery reveals that the dishes at the Al Ismailiyah station have now been removed.
- 4. (TSR) The station at Aswan has two large, fixed troposcatter dishes that are oriented to the southwest and are capable of operating over a distance of 100 to 200 nautical miles. It is likely that these antennas are intended to correspond with the Wadi Halfa area of Sudan, although no station has yet been identified there on overhead imagery.
- 5. (TSR) Table 1 presents information on antennas at the stations, and an accompanying map (Figure 1) shows the locations of the stations and their correspondents.



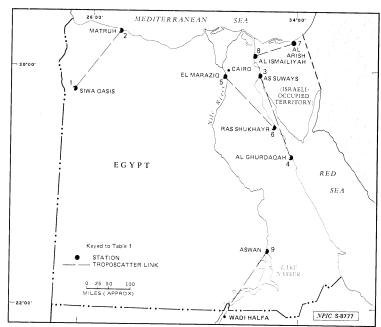


FIGURE 1. TROPOSCATTER STATIONS AND LINKS IN EGYPT

Troposcatter Links in Egypt (Keyed to Figure 1)

This table in its entirety is classified TOP SECRET RUFF

Item	Name BE No Coordinates	Imagery Date	Electronic Order of Battle	Orientation*
l	Siwa Oasis Troposcatter Station		2 prob Collins AN/TRC-132V antennas	Matruh Radio-Relay Station (35 degrees)
2	29-11-25N 025-30-57E Mersa Matruh Radio-Relay Station 31-20-28N 027-14-30F		2 Collins AN/TRC-132V antennas 2 microwave dishes	Siwa Oasis Troposcatter Station
3	As Suways Troposcatter Station 30-01-05N 032-28-40E		l lattice tower troposcatter dish troposcatter dish	(215 degrees) Al Ghurdaqah Troposcatter Station
4	Al Ghurdagah Troposeatter Station		troposcatter dish	As Suways Troposcatter Station
5	El Maraziq Troposcatter Station 29-49-45N 031-13-32E		2 troposcatter dishes, each	Ras Shukhayr Troposcatter Station
6	Ras Shukhayr Troposcatter Station		high from the ground Troposcatter antennas with a square notch cut	(135 degrees) El Maraziq Troposcatter Station
7	28-07-50N 033-15-30E Al Arish Troposcatter Station North 31-08-25N 033-48-05E		out of each corner 2 prob Collins AN/TRC-132V antennas 1 HF antenna	Al Ismailiyah Troposcatter Station Northwest
8 [Al Ismailiyah Troposcatter Station Northwest		None (Collins antennas present in Jul 79)	Al Arish Troposcatter Station North (when antennas were present)
9 [30-35-23N 032-14-28E Aswan Troposcatter Station 24-04-59N 032-54-27E		2 19-m troposcatter antennas	Sudan
*+ 10	degrees from true north.			

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